A. Permit Certificate

MUNICIPAL
WASTEWATER LAND APPLICATION PERMIT
LA-000109-03
Hayden Area Regional Sewer Board

The Hayden Area Regional Sewer Board (HARSB), N. 10789 Atlas Road, Hayden, ID 83835, IS HEREBY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A WASTEWATER-LAND APPLICATION TREATMENT SYSTEM IN ACCORDANCE WITH THE WASTEWATER-LAND APPLICATION RULES (IDAPA 58.01.17), THE WATER QUALITY STANDARDS AND WASTEWATER TREATMENT REQUIREMENTS (IDAPA 58.01.02), AND THE GROUND WATER QUALITY RULE (IDAPA 58.01.11) AND ACCOMPANYING PERMIT APPENDICES AND REFERENCE DOCUMENTS. THIS PERMIT IS EFFECTIVE FROM THE DATE OF SIGNATURE AND EXPIRES ON August 13, 2008.

Gwen P. Fransen

Gwen P. Fransen
Coeur d'Alene Office Regional Administrator
Idaho Department of Environmental Quality

Signed this 13 day of August, 2003

DEPARTMENT OF ENVIRONMENTAL QUALITY
2110 Ironwood Parkway
Coeur d'Alene, Idaho 83814
(208) 769-1422
(208) 769-1404 fax

POSTING ON SITE RECOMMENDED

B. Permit Contents, Appendices and Reference Documents

The Sections, Appendices, and Reference Documents listed on this page are all elements of Wastewater-Land Application Permit LA-000109-03 and are enforceable as such. This permit does not relieve the Hayden Area Regional Sewer Board from responsibility for compliance with other applicable federal, state or local laws, rules, standards or ordinances.

C. Abbreviations, Definitions

Ac-in	Acre-inch. The volume of water or wastewater to cover 1 acre of land to a depth of 1 inch. Equal to 27,154 gallons.
BMP or BMPs	Best Management Practices
COD	Chemical Oxygen Demand
DEQ or the Department	Idaho Department of Environmental Quality
Director	Director of the Idaho Department of Environmental Quality, or the Directors Designee, i.e. Regional Administrator
ET	Evapotranspiration – Loss of water from the soil and vegetation by evaporation and by plant uptake (transpiration)
GS	Growing Season – Typically April 01 through October 31 (214 days)
GW	Ground Water
GWQR	IDAPA 58.01.11 "Ground Water Quality Rule"
Handbook or Guidelines	Handbook for Land Application of Municipal and Industrial Wastewater, DEQ, April 1996.
HLRgs	Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to land application hydraulic management units during the growing season. The HLRgs limit is specified in Section H. *Standard Permit Limits and Conditions.*
HLRngs	Non-Growing Season Hydraulic Loading Rate. Includes any combination of wastewater and supplemental irrigation water applied to each hydraulic management unit during the non-growing season. The HLRngs limit is specified in Section H. *Standard Permit Limits and Conditions*.
HMU	Hydraulic Management Unit (Serial Number designation is MU)
IWR	Irrigation Water Requirement – Any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season (GS). Calculation methodology for the IWR can be found at the following website: http://www.kimberly.uidaho.edu/water/appndxet/index.shtml. The equation used to calculate the IWR at this website is: $IWR = (CU - P_e) / E_i$ CU is the monthly consumptive use for a given crop in a given climatic area. CU is synonymous with crop evapotranspiration P_e is the effective precipitation. CU minus Pe is synonymous with the net irrigation requirement (IR) E_i is the irrigation system efficiency. To obtain the gross irrigation water requirement (IWR), divide the IR by the irrigation system efficiency.
IDAPA	Idaho Administrative Procedures Act.
LG	Lagoon
lb/ac-day	Pounds (of constituent) per acre per day
MG	Million Gallons (1 MG = 36.827 acre-inches)
MGA	Million Gallons Annually (per WLAP Reporting Year)
NGS	Non-Growing Season – Typically November 01 through March 31 (151 days)
NVDS	Non-Volatile Dissolved Solids (= Total Dissolved Solids less Volatile Dissolved Solids)
O&M manual	Operation and Maintenance Manual, also referred to as the Plan of Operation
SAR	Sodium Absorption Ratio
SI	Supplemental Irrigation water applied to the land application treatment site.
Soil AWC	Soil Available Water Holding Capacity - the water storage capability of a soil to a depth at which plant roots will utilize (typically 60 inches or root limiting layer)
SMU	Soil Monitoring Unit (Serial Number designation is SU)

SW	Surface Water
TDS	Total Dissolved Solids or Total Filterable Residue
TDIS	Total Dissolved Inorganic Solids – The summation of chemical concentration results in mg/L for the following common ions: calcium, magnesium, potassium, sodium, chloride, sulfate, and 0.6 times alkalinity (alkalinity expressed as calcium carbonate). Nitrate, Silica and fluoride shall be included if present in significant quantities (i.e. > 5 mg/L each).
TMDL	Total Maximum Daily Load – The sum of the individual waste-load allocations (WLA's) for point sources, Load Allocations (LA's) for non-point sources, and natural background. Such load shall be established at a level necessary to implement the applicable water quality standards with seasonal variations and a margin of safety that takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality. IDAPA 58.01.02 *Water Quality Standards and Wastewater Treatment Requirements*
Typical Crop Uptake	Typical Crop Uptake is defined as the median constituent crop uptake from the three (3) most recent years the crop has been grown. Typical Crop Uptake is determined for each hydraulic management unit. For new crops having less than three years of on-site crop uptake data, regional crop yield data and typical nutrient content values, or other values approved by DEQ may be used.
USGS	United States Geological Survey
WLAP	Wastewater Land Application Permit (or Program)
WLAP Reporting Year	The reporting year begins with the non-growing season and extends through the growing season of the following year, typically November 01 – October 31. For example, the 2000 Reporting Year was November 01, 1999 through October 31, 2000.
WW	Wastewater applied to the land application treatment site

D. Facility Information

Legal Name of Permittee	Hayden Area Regional Sewer Board
Type of Waste	Advanced Secondary Disinfected Municipal Wastewater
Method of Treatment	Slow Rate Irrigation
Type of Facility	Municipal
Site Acres	476 acres (304 acres is currently being irrigated)
Facility Location	Hayden, Idaho
Legal Location	T51N, R4W, Section 4
County	Kootenai
USGS Quad	Hayden
Soils on Site	Dominant soil: Avonville (103) fine gravelly silt. Two other soils are found in narrow bands on the site: Avonville (104) fine gravelly silt loam and Narcisse (156) silt loam.
Depth to Ground Water	approximately 300 feet to ground water
Beneficial Uses of Ground Water	Agricultural, Drinking water
Nearest affected Surface Water	None, Spokane River is 6+ miles south of the site.
Beneficial Uses of Surface Water	Agriculture, primary contact recreation
Facility Contact Person **Mailing Address** **Phone/Fax Number**	Kent Helmer, Administrator HARSB N. 10789 Atlas Rd. Hayden, ID 83835 (208) 772-9505 (208) 772-6863 fax
Facility Consultants **Mailing Address** **Phone / Fax**	Jim Kimball, P.E. J-U-B Engineers 7825 Meadowlark Way, Suite A Coeur d'Alene, ID 83815 (208) 762-8787 (208) 762-9797 fax

E. Compliance Schedule For Required Activities

The "Compliance Activities" in the following table shall be completed on or before the "Completion Date unless modified by the DEQ in writing.

Compliance Activity Number and Completion Date	Compliance Activity Description
CA-00109-01 **Draft**- 3 months after permit reissuance. **Final**- 6 months after permit reissuance.	Prepare a revised "Plan of Operation" (Plan) or Operation and Maintenance Manual (O&M Manual) for the wastewater land application facilities, incorporating the requirements of this permit, to be submitted to DEQ for review and comment. The Plan shall be designed for use as an operator guide for actual day-to-day operations to meet permit requirements and shall include daily sampling and monitoring requirements to insure proper operation of the wastewater treatment facility. The Plan shall contain at a minimum all of the information required by the latest revision of the Plan of Operation Checklist in the WLAP Program Guidance. At a minimum, the Plan will include the following: 1. A crop plan for the entire site including the poplars; 2. A revised map of the site showing acres irrigated, location of different crops, center pivot length with end gun coverage, soil moisture probe locations, roads/property boundaries and fences; 3. Flow rates that can be delivered for the different fields; 4. Details on piping used to deliver effluent from the WWTP to the site and the system for delivering the wastewater to the irrigation systems; 5. Details on the supplemental irrigation water added to the lagoon and how to account for this in the loadings (hydraulic and nutrient) to the site; 6. Details on measuring flows to each field; and 7. Procedures for soil, plant tissue, groundwater, soil moisture and effluent monitoring and testing. Upon approval, the manual shall be incorporated by reference into this permit and shall be enforceable as a part of this permit.
CA-00109-02 **1 year after permit issuance**	Construct, at a minimum, one (1) dedicated downgradient ground water monitoring well located on HARSB's property along the south property line and south of the east pivot. Locate one (1) suitable upgradient domestic well to be used for monitoring. If a suitable domestic upgradient well cannot be found, then a dedicated upgradient monitoring well must be constructed. The location of the wells, suitablility as a monitoring well, proposed sampling procedure and well construction plans and specifications will need to be reviewed and approved by the Department prior to starting construction. Until the new wells are constructed, the monitoring wells used under the old permit should continue to be monitored.

Compliance Activity Number and Completion Date	Compliance Activity Description
CA-00109-03 1 year after permit issuance	Test the storage lagoon for leakage in accordance with the January 2002 DEQ testing procedure or an alternative testing procedure approved by DEQ.
CA-00109-04 3 months after permit issuance	Submit a revised " Land Application Site Instrumentation Plan" that discusses the following instruments: 1. Daily precipitation and temperature instruments; and, 2. Soil moisture instruments.
CA-00109-05 6 months after permit issuance	Complete the installation of any instruments recommended in the "Instrumentation Plan".

F. Permit Limits and Conditions

1) The Permittee is allowed to apply wastewater and treat it on a land application site as prescribed in the tables below and in accordance with all other applicable permit conditions and schedules.

Category	Permitted Limits and Conditions
Type of Wastewater	Advanced Secondary Disinfected Municipal Wastewater
Application Site Area	Slow Rate Irrigation
Application Season	Growing Season only, April 1 - October 15 (198 days)
Maximum Hydraulic Loading Rate, Growing Season (includes wastewater and supplemental irrigation water, if used)	Soil moisture probes located in the fields will be used to determine if the fields can be irrigated. If either the shallow or intermediate probes in 25% or more of the monitoring sites within a HMU have readings less than 10 centibars, irrigation cannot occur in that HMU until at least 75% of the sites within the HMU have readings on both probes of greater than 10 centibars. Application shall generally follow consumptive use rates for the crop throughout the season. No runoff is allowed from any site or fields used for wastewater land application except after a 25-year, 24-hour storm event or greater using Western Regional Climate Center (WRCC) Precipitation Frequency Map, Figure 28 "Isopluvials of 25-YR, 24-HR Precipitation". For this site, the 25-year, 24-hour event is 2.6 inches.
Down gradient ground water	Ground Water Quality shall be in compliance with *Idaho Ground Water Quality Rule* IDAPA 58.01.11
Maximum Nitrogen Application Rate – from all sources	125% of crop uptake, or UI Fertility Guide
Maximum Phosphorus Application Rate – from all sources	125% of crop uptake, or UI Fertility Guide
Grazing	Grazing of domestic animals is not allowed.
Allowable crops	Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed.
Signing	Signs should read 'Irrigated with Wastewater-Do not Drink" or equivalent. Signs shall be posted every 500 feet and at each corner of the outer perimeter of the buffer zones of the site.
Odor Management	The wastewater treatment plant, land application facilities, and other operations associated with the facility shall not create a public health hazard or nuisance conditions, including odors.

Buffer Zone Distances (based on sprinkler irrigation. Drip irrigation buffers allow 50' instead of 100' from the site to dwellings.)	**Disinfection Level* (total coliform)**	**Distance to Public Access**	**Distances to Inhabited Dwellings**	**Distance to streams**	**Distance to nearest private water source**	**Distance to public water sources**	**Single sample maximum total coliform level**
	2.2 /100 ml	0 feet	100 feet	100 feet	186 feet upgradient from site	1000	23/100 ml

*Compliance determination method for disinfection requirements is as follows:
For determining compliance with the 2.2 / 100 ml disinfection level, the median value of the last five (5) results must not exceed 2.2 / 100 ml. In addition, no single sample value shall exceed 23 / 100 ml.

G. Monitoring Requirements

1) Appropriate analytical methods, as given in the *Handbook for Land Application of Municipal and Industrial Wastewater, April 1996*, or as approved by the Idaho Department of Environmental Quality (hereinafter referred to as DEQ), shall be employed. A description of approved sample collection methods, appropriate analytical methods and companion QA/QC protocol shall be included in the Operation and Maintenance Manual.
2) The permittee shall monitor and measure parameters as stated in the Facility Monitoring Schedule in this section. Samples shall be collected at times and locations that represent typical environmental and process parameters being monitored.
3) Monitoring locations are described in Section E. Environmental Monitoring Serial Numbers.
4) Monitoring is required at the frequency shown in the table below if wastewater is applied anytime during the time period shown.
5) If the soil management unit is less than 15 acres, use 5 sub-samples. If the soil management unit is greater than 15 acres, use 10 sub-samples.
6) Ten (10) soil sample locations shall be selected for each management unit. Three (3) soil samples shall be collected at each sample location, one at 0-12 inches, one at 12-24 inches, and one at 24-36 inches. The soil samples collected at 0-12 inches from each sample location shall be composited. Similarly, all soil samples collected at 12-24 inches shall be composited and all soil samples collected at 24-36 inches shall be composited. This method will yield three samples for analysis, one for 0-12 inches, one for 12-24 inches and one for 24-36 inches for each soil management unit. If the material found at the 24-36 depth at a soil sample location is found to be mostly gravels, cobbles and/or boulders and not suitable for root growth, a sample from this depth does not need to be taken.
7) Ground Water Monitoring Procedure: Ground Water Monitoring Wells shall be purged a minimum of three casing volumes and/or until field measurements for pH, specific conductance and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other; pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other; and two successive specific conductance values measured at least five minutes apart are within 10% of each other. This procedure will determine when the wells are suitable for sampling for constituents required by the permit. Other procedures, such as low flow sampling, may be considered by DEQ for approval. and incorporated into Plan of Operation. The static water level shall be measured prior to pumping or sampling the ground water.

Facility Monitoring Schedule

Item	Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Wastewater	Daily (when land applying)	Discharge from WWTP to land application site	Flow (MGD) and cumulative volume of wastewater delivered to site	Million Gallons per Day (MGD) and Gallons
Wastewater	Daily (when land applying)	At same monitoring point used for total coliform sampling	Grab sample	Free chlorine residual
Wastewater (with supplemental irrigation water)	Daily (when land applying)	Discharge point of wastewater to each Hydraulic Management Unit	Volume of wastewater land applied to each Hydraulic Management Unit	Gallons/day to each HMU, gallons/month and inches/acre/week applied to each Hydraulic Management Unit

Item	Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Supplemental irrigation water	Daily (after April 1)	Discharge point where it enters lagoon or irrigation system	Volume of supplemental irrigation water applied to each Hydraulic Management Unit or added to lagoon	Gallons/day, gallons/month and inches/acre/week applied to each Hydraulic Management Unit or added to lagoon
Wastewater	Twice per Week (when land applying)	At some location in the treatment process	Grab sample	Total Coliform
Wastewater	Monthly (when land applying)	Discharge point of wastewater to land application fields	Grab sample	Total Kjeldahl Nitrogen(TKN), Ammonia-nitrogen, Nitrate+Nitrite-nitrogen, TDS, pH, Total Phosphorus
Non-wastewater fertilizers applied	Annually	Each Hydraulic Management Unit	Total nitrogen and phosphorus load from fertilizer or all other non-wastewater application applied to each Hydraulic Management Unit	Total nitrogen and phosphorus applied in lbs./acre/year to each Hydraulic Management Unit and when applied
Wastewater nutrients applied	Annually	Each Hydraulic Management Unit	Total nitrogen and phosphorus loading calculation from wastewater	Total nitrogen and phosphorus applied in lbs./acre/year to each Hydraulic Management Unit
Crop Yield	Annually	Each Hydraulic Management Unit (except poplars)	Crop Yield Calculation and Crop Type	Tons/acre, lbs/acre, or bushels/acre
Plant tissue analysis	At time of each crop harvest (except for poplars)	Each Hydraulic Management Unit (except poplars)	Crop Nutrient Uptake from Crop Tissue Analysis (sample only portion of crop removed from field)	Total Kjeldahl Nitrogen(TKN), Nitrate –Nitrogen in lbs./acre/year
Soil sampling	Twice per year (in spring before fertilizing and in fall after last harvest)	Soil Monitoring Units	Composite soil sample (per Section G, item #6)	Electrical conductivity, Nitrate-N, Ammonium-N, % organic matter, Plant available phosphorous, pH

Item	Frequency	Monitoring Point	Description and Type of Monitoring	Parameters
Ground water	Three times per year (April, August, October)	Each monitoring well (minimum of 1 upgradient and 2 downgradient)	Ground water sample (sampling done per Section G, item #7)	Chloride, Electrical conductivity, Nitrate-N, TDS, Static water level
Ground water	Once immediately after completion of the monitoring well network (no later than one (1) year after the permit issuance) and once in October 2008	Each monitoring well (minimum of 1 upgradient and 2 downgradient)	Ground water sample (sampling done per Section G, item #7)	Major ions (calcium, magnesium, sodium, potassium, bicarbonate, chloride and sulfate)
Soil Moisture	Daily (when land applying)	Each soil moisture probe station (1 shallow and 1 intermediate depth)	Soil moisture reading from buried soil moisture probes	Centibars
Meteorological Data	Daily (when land applying)	Weather Station w/ rain gauge and recording thermometer.	Record readings from thermometer and rain gauge	High and low air temperatures and precipitation (inches/day)during each 24-hour period.

H. Standard Reporting Requirements

1. The permittee shall submit an Annual Wastewater-Land Application Site Performance Report ("Annual Report") prepared by a competent environmental professional no later than January 31 of each year which shall cover the previous year. The Annual Report shall include results for monitoring required in Section G, status of compliance activities, and an interpretive discussion of monitoring data (ground water, vadose zone, hydraulic loading, wastewater etc.) with particular respect to environmental impacts by the facility.

2. The annual report shall contain the results of the required monitoring as described in Section G. Monitoring Requirements. If the permittee monitors any parameter more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.

3. The annual report shall be submitted to the Engineering Manager in the applicable Regional DEQ Office.

Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239
208-373-550

Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814
208-769-1422

Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402
208-528-2650

Lewiston Regional Office
1118 "F" Street
Lewiston, ID 83501
208-799-4370

Pocatello Regional Office
444 Hospital Way, #300
Pocatello, ID 83201
208-236-6160

Twin Falls Regional Office
601 Pole Line Road, Suite 2
Twin Falls, ID 83301
208-736-2190

A copy of the annual report shall also be mailed to:

Richard Huddleston, P.E.
Wastewater Program Manager
1410 N. Hilton
Boise, ID 83706
208-373-0561

4. Notice of completion of any work described in Section E. Compliance Schedule for Required Activities shall be submitted to the Department within 30 days of activity completion. The status of all other work described in Section E shall be submitted with the Annual Report.

5. All laboratory reports containing the sample results for monitoring required by Section G. Monitoring Requirements of this permit shall be submitted with the Annual Report.

I. Standard Permit Conditions: Procedures and Reporting

1. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, operational controls and monitoring, which are installed or used by the permittee to comply with all conditions of the permit or the Wastewater-Land Application Permit Regulations, in conformance with a DEQ approved, current Plan of Operations (Operations and Maintenance Manual) which describes in detail the operation, maintenance, and management of the wastewater treatment system. This Plan of Operations shall be updated as necessary to reflect current operations.

2. Wastewater(s) or recharge waters applied to the land surface must be restricted to the premises of the application site unless permission has been obtained from the DEQ authorizing a discharge into the waters of the State as stated in IDAPA 58.01.02.600.02.

3. Wastewater must not create a public health hazard or nuisance condition as stated in IDAPA 58.01.02.600.03. In order to prevent public health hazards and nuisance conditions the permittee shall:

   a. Apply wastewater as evenly as practicable to the treatment area;
   b. Prevent organic solids (contained in the wastewater) from accumulating on the ground surface to the point where the solids putrefy or support vectors or insects; and
   c. Prevent wastewater from ponding in the fields to the point where the ponded wastewater putrefies or supports vectors or insects.

4. The permittee shall:

   a. Manage the wastewater land application treatment site as an agronomic operation where vegetative cover is grown and harvested or grazed to utilize the nutrients and minerals in the wastewater, and,
   b. Not hydraulically overload any particular areas of the wastewater land application treatment site.

5. All waste solids, including dredgings and sludges, shall be utilized or disposed in a manner which will prevent their entry, or the entry of contaminated drainage or leachate therefrom, into the waters of the state such that health hazards and nuisance conditions are not created; and to prevent impacts on designated beneficial uses of the ground water and surface water. The permittee's management of waste solids shall be governed by the terms of the DEQ approved Waste Solids Management Plan, which upon approval shall be an enforceable portion of this permit.

6. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit at least six months prior to the expiration date of the existing permit in accordance with the Waste Water Land Application Permit Regulations and include seepage tests on all lagoons per latest DEQ procedures.

7. The permittee shall allow the Director of the Idaho Department of Environmental Quality or the Director's designee (hereinafter referred to as Director), consistent with Title 39, Chapter 1, Idaho Code, to:

   a. Enter the permitted facility,
   b. Inspect any records that must be kept under the conditions of the permit.
   c. Inspect any facility, equipment, practice, or operation permitted or required by the permit.
   d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility.

8. The permittee shall report to the Director under the circumstances and in the manner specified in this section:

   a. In writing thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process.
   b. In writing thirty (30) days before any anticipated change which would result in non-compliance with any permit condition or these regulations.
   c. Orally within twenty-four (24) hours from the time the permittee became aware of any non-compliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director (see below)

DEQ Regional Office: see Permit Certification Page
Emergency 24 Hour Number 1-800-632-8000

I. Standard Permit Conditions: Procedures and Reporting (cont.)

d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any non-compliance unless extended by the DEQ. This report shall contain:
   i. A description of the non-compliance and its cause;
   ii. The period of non-compliance including to the extent possible, times and dates and, if the non-compliance has not been corrected, the anticipated time it is expected to continue; and
   iii. Steps taken or planned to reduce or eliminate reoccurrence of the non-compliance.

e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report.

9. The permittee shall take all necessary actions to prevent or eliminate any adverse impact on the public health or the environment resulting from permit noncompliance.

10. The permittee shall determine (on an on-going basis) if any noxious weed problems relate to the permitted sites. If problems are present, coordinate with the Idaho Department of Agriculture or the local County authority regarding their requirements for noxious weed control. Also address these control operations in an update to the Operations and Maintenance Manual.

J. Standard Permit Conditions: Modifications, Violations, and Revocations

1. The permittee shall furnish to the Director within reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these regulations.

2. Both minor and major modifications may be made to this permit as stated in IDAPA 58.01.17.700.01 and 02 with respect to any conditions stated in this permit upon review and approval of the DEQ.

3. Whenever a facility expansion, production increase or process modification is anticipated which will result in a change in the character of pollutants to be discharged or which will result in a new or increased discharge that will exceed the conditions of this permit, or if it is determined by the DEQ that the terms or conditions of the permit must be modified in order to adequately protect the public health or environment, a request for either major or minor modifications must be submitted together with the reports as described in I. *Standard Reporting Requirements*, and plans and specifications for the proposed changes. No such facility expansion, production increase or process modification shall be made until plans have been reviewed and approved by the DEQ and a new permit or permit modification has been issued.

4. Permits shall be transferable to a new owner or operator provided that the permittee notifies the Director by requesting a minor modification of the permit before the date of transfer.

5. Any person violating any provision of the Waste Water Land Application Permit Regulations, or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars ($10,000) or one thousand dollars ($1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor.

6. The Director may revoke a permit if the permittee violates any permit condition or the Wastewater Land Application Permit Regulations.

7. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee request an administrative hearing in writing to the Board of the Department of Environmental Quality pursuant to the Rules of Administrative Procedures contained in IDAPA 58.01.23.

8. If, pursuant to Idaho Code ə 67-5247, the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, a revocation hearing before the Board of the Department of Environmental Quality shall be provided. Such hearings shall be conducted in accordance with the Rules of Administrative Procedures contained in IDAPA 58.01.23.

9. The provisions of this permit are severable and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

10. The permittee shall notify the DEQ at least six (6) months prior to permanently removing any permitted land application facility from service, including any treatment, storage, or other facilities or equipment associated with the land application site. Prior to commencing closure activities, the permittee shall: a) participate in a pre-site closure meeting with the DEQ; b) develop a site closure plan that identifies specific closure, site characterization, or cleanup tasks with scheduled task completion dates in accordance with agreements made at the pre-site closure meeting; and c) submit the completed site closure plan to the DEQ for review and approval within forty-five (45) days of the pre-site closure meeting. The permittee must complete the DEQ approved site closure plan.

Appendices

Environmental Monitoring Serial Numbers

Computerized Data Reporting Serial Number Key

HYDRAULIC MANAGEMENT UNITS (HMU)		
Description	**Acres**	**Serial No.**
Field 1- Bluegrass	132	HMU-0109-01
Field 2- Alfalfa	101	HMU-0109-02
Field 3- Timothy Grass	34	HMU-0109-03
Field 4A- Poplar Trees (2000)	3.7	HMU-0109-04A
Field 4B- Poplar Trees (2001)	11.5	HMU-0109-04B
Field 4C- Poplar Trees (2003)	22.4	HMU-0109-04C
Field 4D- Poplar Trees (future)	11.8	HMU-0109-04D
Field 4E- Poplar Trees (future)	34.1	HMU-0109-04E
Field 5- (Future crop)	125.5	HMU-0109-05

WASTEWATER SAMPLING POINTS	
Description	**Serial No.**
Discharge point of wastewater and supplemental irrigation water to Hydraulic Management Units	WW-0109A-01, 02, 03, 04A-04E and 05
Discharge point of wastewater from WWTP to Land Application System (either lagoon or irrigation system)	WW-0109B-01

PLANT TISSUE SAMPLING	
Description	**Serial No.**
Tissue sampling of crop removed- alfalfa	PT-0109-01
Tissue sampling of crop removed- timothy grass	PT-0109-02
Tissue sampling of crop removed- bluegrass	PT-0109-03

SOIL MONITORING UNITS		
Description	**Associated Hydraulic Unit**	**Serial No.**
Field 1- Bluegrass	MU-010901	SU-0109-01
Field 2- Alfalfa	MU-010902	SU-0109-02
Field 3- Timothy Grass	MU-010903	SU-0109-03
Field 4A- Poplar Trees (2000)	MU-010904A	SU-0109-04A
Field 4B- Poplar Trees (2001)	MU-010904B	SU-0109-04B
Field 4C- Poplar Trees (2003)	MU-010904C	SU-0109-04C
Field 4D- Poplar Trees (future)	MU-010904D	SU-0109-04D
Field 4E- Poplar Trees (future)	MU-010904E	SU-0109-04E
Field 5- (Future crop)	MU-010905	SU-0109-05

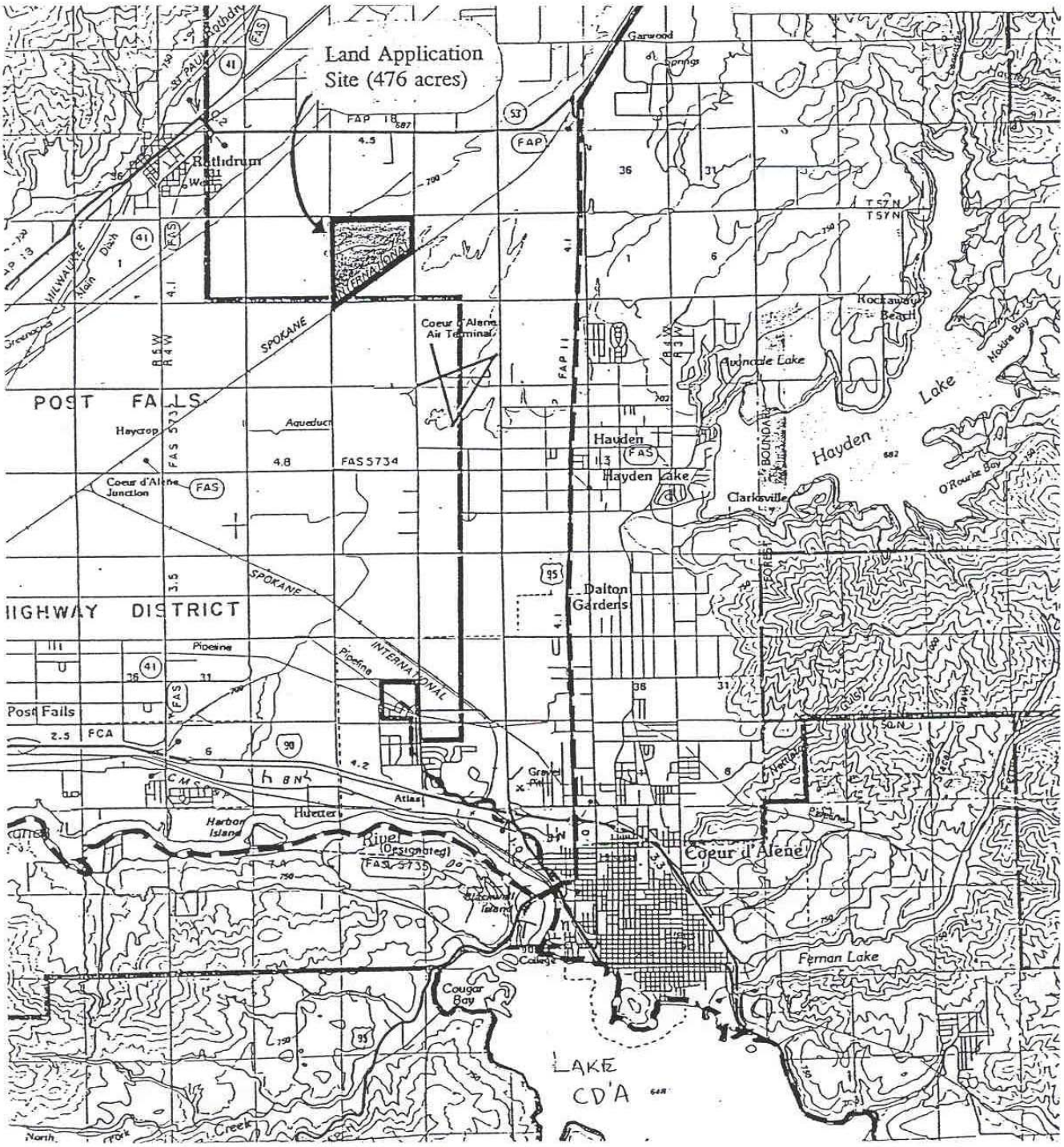
GROUNDWATER MONITORING		
Description	**Location**	**Serial No.**
Monitoring Well No. 1 (upgradient)	Will be determined within 1 year	GW-0109-01
Monitoring Well No. 2 (downgradient)	Will be determined within 1 year	GW-0109-02
Monitoring Well No. 3 (downgradient)	Will be determined within 1 year	GW-0109-03

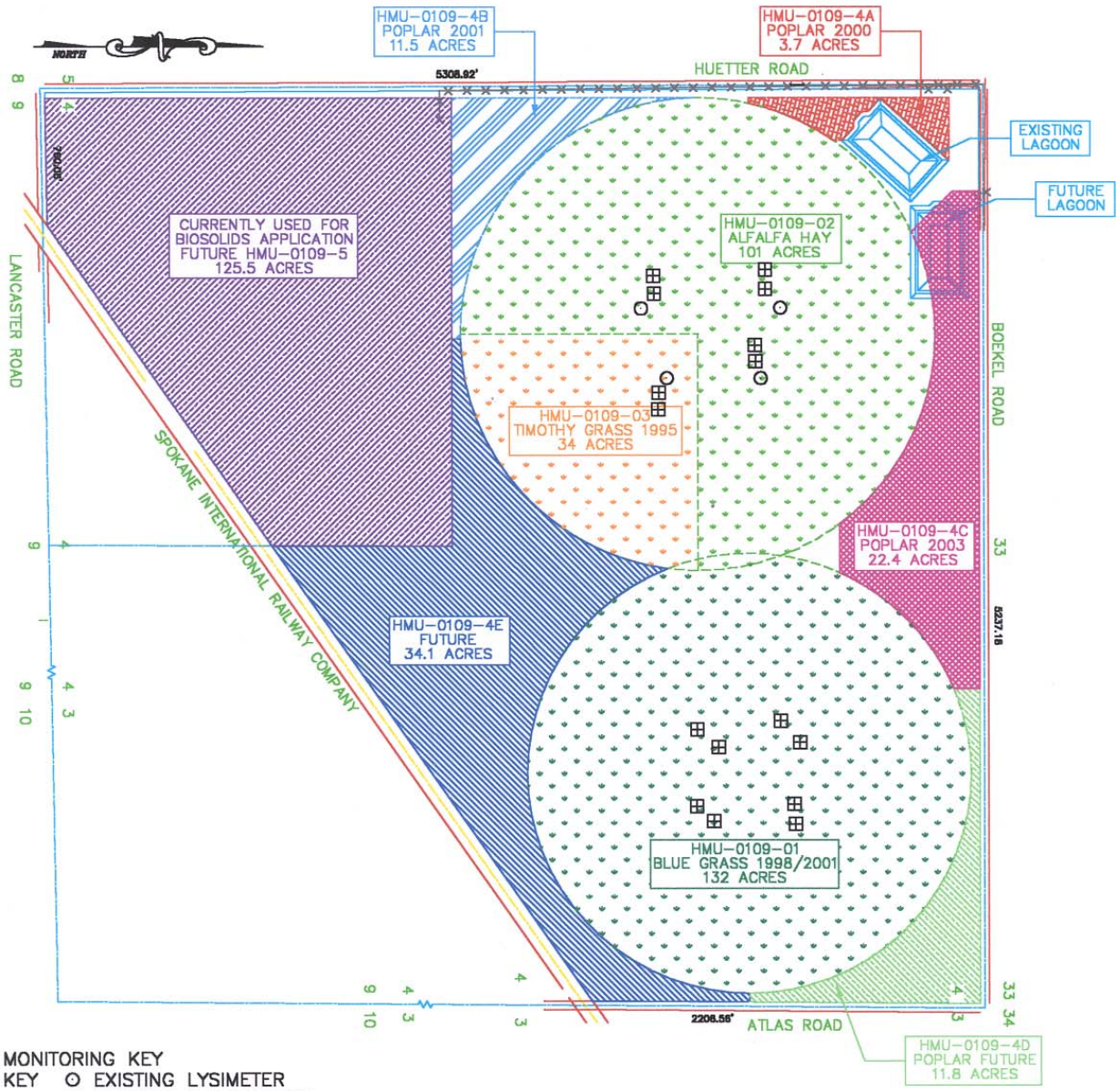
SOIL MOISTURE PROBES		
Description	**Associated Hydraulic Unit**	**Serial No.**
Soil Moisture Probes #1S- #4S (shallow) Soil Moisture Probes #1I- #4I (intermediate)	MU-010901 (Bluegrass)	SMP-010901-1S to 4S SMP-010901-1I to 4I
Soil Moisture Probes #1S- #3S (shallow) Soil Moisture Probes #1I- #3I (intermediate)	MU-010902 (Alfalfa)	SMP-010902-1S to 3S SMP-010902-1I to 3I
Soil Moisture Probes #1S (shallow) Soil Moisture Probes #1I (intermediate)	MU-010903 (Timothy Grass)	SMP-010903-1S SMP-010903-1I

Soil Moisture Probes #1S (shallow) Soil Moisture Probes #1I (intermediate)	MU-010904A to 4E (Poplar Trees)	SMP-010904A-1S SMP-010904A-1I SMP-010904B-1S SMP-010904B-1I SMP-010904C-1S SMP-010904C-1I SMP-010904D-1S (future) SMP-010904D-1I (future) SMP-010904E-1S (future) SMP-010904E-1I (future)
Moisture Probes #1S (shallow) Soil Moisture Probes #1I (intermediate)	MU-010905 (future)	To be determined

Site Maps

Area Map





MONITORING KEY
KEY ⊙ EXISTING LYSIMETER
⊞ EXISTING TENSIOMETER

NOTE:
PROPOSED TENSIOMETERS & LYSIMETER WILL BE SHOWN IN THE INSTRUMENTAL PLAN

SITE MAP
N.T.S.

References

Reference Documents incorporated or to be incorporated into the Permit

1. Plan of Operation (Operation and Maintenance Manual)